



PSKN Adjustable Series



SMA (L) & TNC (R) versions

## 1/2 wave Device Antennas

### 90° Adjustable Knuckle Antennas

- Up to 2.3 dBi gain styles with semi-flexible radome and adjustable knuckle
- Halfwave design requires no groundplane
- Models for popular bands including Cellular, Mobitex, ISM, GSM, 802.11
- Sleek molded profile, with a choice of SMA or TNC connectors

These antennas require no ground plane for operation. This makes them ideal for use with portable devices or products with no substantial groundplane. They can even be used with products that consist of all plastic chassis or case.

The PSKN Series antennas use a full length center fed dipole configuration. A knuckle feature allows the antenna to be adjusted between a straight position, to a 90° right angle position. This is useful for products that may need to be placed both horizontal and vertical, or where the connector is placed on the side of a radio device.

Maximum radiation is achieved along the horizon, and bandwidth provided is substantial. VSWR is typically 2:1 or better over the desired frequency range. The antennas are available in many popular frequency bands.

The radome is made of flexible Polyurethane. Standard connector styles available include TNC or SMA. For FCC part 15 compliance, select models offer reverse polarity connectors.

#### Model Numbers - TNC Male Connectors

Model	Typical Use	Frequency
PSKN3-900T	US Cellular/CDPD	824-894 MHz
PSKN3-925T	EU GSM/Mobitex	870-960 MHz
PSKN3-1800T	EU DCS-1800	1710-1880 MHz
PSKN3-1900T	US PCS/GPRS	1850-1990 MHz
PSKN3-2400T	802.11 WiFi	2400-2485 MHz

#### Model Numbers - SMA Male Connectors

PSKN3-900S	US Cellular/CDPD	824-894 MHz
PSKN3-925S	EU GSM/Mobitex	870-960 MHz
PSKN3-1800S	EU DCS-1800	1710-1880 MHz
PSKN3-1900S	US PCS/GPRS	1850-1990 MHz
PSKN3-2400S	802.11 WiFi	2400-2485 MHz

#### Model Numbers - Rev SMA Plug Connectors

PSKN3-925RS	US PCS/GPRS	870-960 MHz
PSKN3-2400RS	802.11 WiFi	2400-2485 MHz

#### Model Numbers - Rev TNC Plug Connectors

PSKN3-925RT	US PCS/GPRS	870-960 MHz
PSKN3-2400RT	802.11 WiFi	2400-2485 MHz

Models with "-925" also operate on ISM 902-928.

#### Specifications

<b>Frequency:</b>	See above
<b>Gain:</b>	2.3 dBi max
<b>VSWR:</b>	2:1 over band
<b>Impedance:</b>	50 Ohm nominal
<b>Maximum Power:</b>	10 Watts
<b>Connector:</b>	See models above
<b>Whip Length Straight:</b>	
900 & 925 Series	9" in straight position
1800 & 1900 Series:	7.75" in straight position
2400 Series:	7" in straight position

<b>Whip Length 90°:</b>	
900 & 925 Series	7.9" in right angle position
1800 & 1900 Series:	6.5" in right angle position
2400 Series:	5.75" in right angle position
<b>Right Angle Standoff:</b>	1.25" inside clearance, 1.75" outside clearance
<b>Case Material:</b>	Polyurethane

Please consult factory for special configurations & frequency bands.



PSTG Series Antennas  
for single & dual band

## 1/4 wave Device Antennas

Dual Band for Cellular & PCS/DCS-1800  
Single Band for Cellular, ISM or Mobitex

- Sleek profile with small SMA connectors
- Compact helical design with high performance
- Perfect for wireless handsets, data modems, and RFID scanners
- Tough polyurethane radome resists impact damage

These quarterwave stubby antennas offer high performance with the minimum of size. The helical design of the antennas results in a compact length that is only 1 3/4" in length. The sleek profile pairs well with a wide variety of devices.

Different single and dual band combinations are offered, providing maximum of flexibility. Typical popular dual band combinations include US AMPS Cellular with PCS (GPRS), or International GSM with DCS-1800. Other cross continent combinations are available, please consult factory for details. Single band models are offered for US Cellular/CDPD, or 902-928 ISM/Mobitex (also usable for EU 900 Band GSM).

The antennas are available with an SMA Male connector. The connector is lightly knurled for easy tightening.

The antenna radomes are made from polyurethane, which provided a protective, waterproof covering. It is a solid material, which provides some flexibility. This makes these antennas suitable for devices such as access points, or hand-held portable units.

As helical antennas, the ground plane in the device influences the performance of these quarterwave

antennas. The specific radiation characteristics depends on the total configuration of the unit when interfaced with the antenna. How the wireless device is mounted or handled can also influence the radiation characteristics.

### Model Numbers - Dual Band Antennas

Model	Frequency Band
PSTG0-900/1900HKS	824-894 MHz & 1850-1990 MHz
PSTG0-925/1800HKS	890-960 MHz & 1710-1880 MHz
PSTG0-925/1900HKS	890-960 MHz & 1850-1990 MHz
PSTG0-1950/2140HKS	1920-1980 MHz & 2110-2170 MHz

### Model Numbers - Single Band Antennas

Model	Frequency Band
PSTG0-900HKS	824-894 MHz
PSTG0-925HKS	870-960 MHz

### Frequency Guide

-900 Models	For US Cellular (Analog & Digital), CDPD
-925 Models	For EU Cellular, ISM, Mobitex & RAM
/1800	For DCS-1800
/1900	For US PCS (& GPRS)
-1950/2140	For 3G applications

### Specifications

<b>Frequency:</b>	See above	<b>Connector:</b>	SMA Male (plug)
<b>Gain:</b>	0 dBi max	<b>Whip Length:</b>	1 3/4" inches (4.5 cm)
<b>Bandwidth@3:1SWR:</b>	See freq range above	<b>Radome Material:</b>	Polyurethane, with black matt finish, and knurled connector
<b>Impedance:</b>	50 Ohm nominal		
<b>Maximum Power:</b>	5 Watts		
<b>Operating Temp:</b>	-22°F to 140°F		



CVT Series Covert Antennas

## Covert Cellular Antenna

For Cellular/CDPD, 900 GSM, ISM & PCS

- Halfwave 2 dBi gain styles with flexible radome
- Low profile; perfect for covert use
- Fully waterproof & durable radome
- Models for popular frequency bands from 800 MHz to 1.9 GHz

These antennas have been designed for covert use in a vehicle. The CVT Series consists of a rubber duck style antenna with a pencil thin slim-line radome and a cable pigtail for easy connection. The antenna provides 2 dBi gain performance.

The antennas are ground plane independent and can be mounted in a variety of locations; both inside and outside a vehicle. They can be installed behind a rearview mirror, under a dashboard or rear window deck/shelf. For external applications, appropriate locations might include under rubber bumper strips, or inside side mirrors. The antennas are fully waterproof.

When mounting the antenna, care should be taken to ensure the antenna is positioned so that no metal or metalized finish obstructs the radiation pattern of the antenna.

The CVT series is covered with a black flexible Santoprene radome. This model is normally provided with 8 ft of RG-174 cable. Most popular connectors are available.

### Model Numbers

Model	Band(s)	Connector
CVT-900S	US Cellular/CDPD	SMA
CVT-900T	US Cellular/CDPD	TNC
CVT-925S	900 GSM/ISM/Mobitex	SMA
CVT-925T	900 GSM/ISM/Mobitex	TNC
CVT-1800S	1800 Band EU GSM	SMA
CVT-1800T	1800 Band EU GSM	TNC
CVT-1900S	1900 Band PCS/GPRS	SMA
CVT-1900T	1900 Band PCS/GPRS	TNC

Special configurations available upon request. Please consult factory for details/availability.

### Specifications

#### Frequency:

Cellular/CDPD	824-894 MHz
GSM (& ISM/Mobitex)	870-960 MHz
1800 Band/EU GSM	1710-1850 MHz
1900 Band/US PCS	1850-1990 MHz

#### Gain:

2.3 dBi max

#### Bandwidth@2:1 VSWR:

See freq range above

#### Impedance:

50 Ohm nominal

#### Maximum Power:

10 Watts

#### Cable:

8 ft, RG-174

#### Connectors:

TNC or SMA Male based on model

#### CVT Series Whip Length:

CVT-925	7 inches (177mm)
CVT-900	8 inches (205mm)
CVT-1800	6 inches (152 mm)
CVT-1900	6 inches (152 mm)

#### Material:

Santoprene radome

#### Other:

Special cable lengths or connector configurations available, please inquire for details